



51871-000004.UTL

U.S. Patent

UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of	)	Group Art Unit: 1632
	)	
BAZAN et al.	)	Examiner: SISSON, BRADLEY L.
	)	
Serial No.: 10/779,412	)	Customer. No. 23464
	)	
Filed: February 13, 2004	)	
	)	
For: METHODS AND COMPOSITIONS	)	
FOR DETECTION AND ANALYSIS	)	
OF POLYNUCLEOTIDE-BINDING	)	
PROTEIN INTERACTIONS	)	
USING LIGHT HARVESTING	)	
<u>MULTI-CHROMOPHORES</u>	)	

**INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97-1.98**

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P. O. Box 1450  
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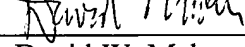
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Applicant respectfully requests that the Examiner review the foregoing documents and information and that they be made of record in the file history of the above-captioned application.

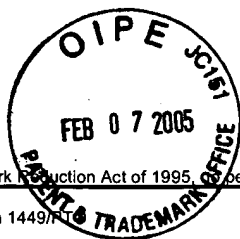
Respectfully submitted,

BUCHANAN INGERSOLL P.C.

Date: January 26, 2005

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PTO/SB/08A (08-03)

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**INFORMATION DISCLOSURE  
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Sheet

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of

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Application Number	10/779,412
Filing Date	February 13, 2004
First Named Inventor	Guillermo C. Bazan
Art Unit	1634
Examiner Name	Sisson, Bradley L.
Attorney Docket Number	51871-000004

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	144	US- 4,948,843 A	08-14-1990	Roberts et al.	
	145	US- 4,950,587 A	08-21-1990	Roberts et al.	
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	151	US- 5,990,479 A	11-23-1999	Weiss et al.	
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	153	US- 6,534,329 B1	03-18-2003	Heeger et al.	
	154	US- 6,743,640 B1	06-01-2004	Whitten	
	155	US- 2002/0009728 A1	01-24-2002	Bittner	
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	161	US- 60/202,647	05-08-2000	Whitten	
	162	US- 60/226,902	08-23-2000	Whitten	

**FOREIGN PATENT DOCUMENTS**

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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
	163	WO 99/35288 A1	07-15-1999	Minnesota Mining and Manufacturing Company		
	164	WO 00/14278 A1	03-16-2000	The Secretary of State for Defence		
	165	WO 00/66790 A1	11-09-2000	The Regents of the University of California		
	166	WO 02/081735 A2	10-17-2002	Infectio Diagnostic (I.D.I.) Inc.		
	167	WO 2004/001379 A2	12-31-2003	The Regents of the University of California		

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	2	of	7
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Application Number	10/779,412
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First Named Inventor	Guillermo C. Bazan
Art Unit	1634
Examiner Name	Sisson, Bradley L.
Attorney Docket Number	51871-000004

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		Examiner Name	Sisson, Bradley L.
Sheet 3	of 7	Attorney Docket Number	51871-000004

NON PATENT LITERATURE DOCUMENTS			
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	174	Wang et al., "Size-Specific Interactions Between Single- and Double-Stranded Oligonucleotides and Cationic Water-Soluble Oligofluorenes", Adv. Funct. Mater., June 2003, 13(6), 463-467.	
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	183	Bronich et al., "Recognition of DNA Topology in Reactions between Plasmid DNA and Cationic Copolymers", J. Am. Chem. Soc., September 2000, 122(35), 8339-8343.	

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	184	Chen et al., "Tuning the Properties of Conjugated Polyelectrolytes through Surfactant Complexation", J. Am. Chem. Soc., 2000, 122, 9302-9303.	
	185	Gaylord et al., "Water-Soluble Conjugated Oligomers: Effect of Chain Length and Aggregation on Photoluminescence-Quenching Efficiencies", J. Am. Chem. Soc., 2001, 123, 6417-6418.	
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	193	Wang et al., "Biosensors from conjugated polyelectrolyte complexes", PNAS, January 2002, 99(1), 49-53.	

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	194	Liu et al., "Methods for strand-specific DNA detection with cationic conjugation polymers suitable for incorporation into DNA chips and microarrays", PNAS Early Edition, December 2004, p. 1-5	
	195	Vehse et al., "Light Amplification by Optical Excitation of a Chemical Defect in a Conjugated Polymer", Adv. Mater., June 2004, 16(12), 1001-1004.	
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	202	Heeger et al., "Making Sense of polymer-based biosensors", PNAS, October 1999, 96(22), 12219-12221.	
	203	Patel et al., "Energy transfer analysis of Fos-Jun dimerization and DNA binding", Proc. Natl. Sci. USA, July 1994, 91, 7360-7364.	

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	204	Lohse et al., "Fluorescein-Conjugated Lysine Monomers for Solid Phase Synthesis of Fluorescents Peptides and PNA Oligomers", Bioconjugate Chem., 1997, 8, 503-509.	
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	212	Wang et al., "Optically Amplified RNA-Protein Detection Methods Using Light-Harvesting Conjugated Polymers", Adv. Mater., September 2003, 15(17), 1425-1428.	
	213	Liu et al., "Homogeneous Fluorescents-Based DNA Detection with Water-Soluble Conjugated Polymers", Chem. Mater., 2004, 16, 4467-4476.	

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	214	Wolcott, "Advances in Nucleic Acid-Based Detection Methods", Clinical Microbiology Reviews, October 1992, 5(4), 370-386.	
	215	Umek et al., "Electronic Detection of Nucleic Acids, A Versatile Platform for Molecular Diagnostics", Journal of Molecular Diagnostics, May 2001, 3(2), 74-84.	
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	217	Wang, "Survey and Summary From DNA biosensors to gene chips", Nucleic Acids Research, 2000, 28(16), 3011-3016.	
	218	Beier et al., "Versatile derivatisation of solid support media for covalent bonding on DNA-microchips", Nucleic Acids Research, 1999, 27(9), 1970-1977.	

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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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